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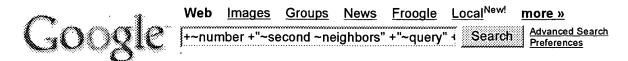
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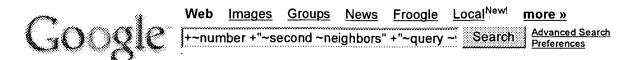
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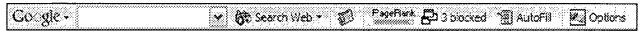
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1 Links for a better web: Refinement of TF-IDF schemes for web pages using their hyperlinked neighboring pages

window

Kazunari Sugiyama, Kenji Hatano, Masatoshi Yoshikawa, Shunsuke Uemura August 2003 Proceedings of the fourteenth ACM conference on Hypertext and hypermedia

Full text available: pdf(211.25 KB)

Additional Information: full citation, abstract, references, citings, index terms

In IR (information retrieval) systems based on the vector space model, the TF-IDF scheme is widely used to characterize documents. However, in the case of documents with hyperlink structures such as Web pages, it is necessary to develop a technique for representing the contents of Web pages more accurately by exploiting the contents of their hyperlinked neighboring pages. In this paper, we first propose several approaches to refining the TF-IDF scheme for a target Web page by using the contents ...

Keywords: TF-IDF scheme, WWW, hyperlink, information retrieval

Mercury: supporting scalable multi-attribute range queries

Ashwin R. Bharambe, Mukesh Agrawal, Srinivasan Seshan



Full text available: pdf(1.29 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents the design of Mercury, a scalable protocol for supporting multi-attribute range-based searches. Mercury differs from previous range-based query systems in that it supports multiple attributes as well as performs explicit load balancing. To guarantee efficient routing and load balancing, Mercury uses novel light-weight sampling mechanisms for uniformly sampling random nodes in a highly dynamic overlay network. Our evaluation shows that Mercury is able to achieve ...

Keywords: distributed hash tables, load balancing, peer-to-peer systems, random sampling, range queries

3

Special issue on wireless pan & sensor networks: CAPTURE: location-free contact-

assisted power-efficient query resolution for sensor networks Ahmed Helmy

January 2004 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 8

Full text available: pdf(844.09 KB) Additional Information: full citation, abstract, references

Queries and small transfers are likely to constitute a significant portion of the flows in emerging classes of sensor networks. Route discovery for such gueries incurs much more communication overhead than the actual data transfer. Especially for large-scale sensor networks, it is quite costly to establish shortest path routes for such types of requests. Flooding-based approaches for routing are designed to search for high quality routes. Such approaches may be suitable for prolonged transfers, ...

Nearest neighbor queries in road networks

Christian S. Jensen, Jan Kolářvr, Torben Bach Pedersen, Igor Timko

November 2003 Proceedings of the 11th ACM international symposium on Advances in geographic information systems

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(243.31 KB) terms

With wireless communications and geo-positioning being widely available, it becomes possible to offer new e-services that provide mobile users with information about other mobile objects. This paper concerns active, ordered k-nearest neighbor queries for query and data objects that are moving in road networks. Such queries may be of use in many services. Specifically, we present an easily implementable data model that serves well as a foundation for such queries. We also pres ...

Keywords: location-based services, nearest neighbors, query processing, road networks

5 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 2

Full text available: pdf(4.87 MB) Additional Information: full citation, references, citings, index terms

6 Special issue on wireless extensions to the internet: Scenario-based comparison of source-tracing and dynamic source routing protocols for ad hoc networks Jyoti Raju, J. J. Garcia-Luna-Aceves

October 2001 ACM SIGCOMM Computer Communication Review, Volume 31 Issue 5

Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references

We present source tracing as a new viable approach to routing in ad hoc networks in which routers communicate the second-to-last hop and distance in preferred paths to destinations. We introduce a table-driven protocol (BEST) in which routers maintain routing information for all destinations, and an on-demand routing protocol (DST) in which routers maintain routing information for only those destinations to whom they need to forward data. Simulation experiments are used to compare these proto ...

Keywords: On-demand routing, ad hoc networks, wireless routing

7 <u>Database session 1: guerying high-dimensional data: Approximate searches: k-</u> neighbors + precision Sid-Ahmed Berrani, Laurent Amsaleg, Patrick Gros

retrieving the k nearest neighbors (NNs) of query poi ...

November 2003 Proceedings of the twelfth international conference on Information and knowledge management

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(154.57 KB)

It is known that all multi-dimensional index structures fail to accelerate content-based similarity searches when the feature vectors describing images are high-dimensional. It is possible to circumvent this problem by relying on approximate search-schemes trading-off result quality for reduced query execution time. Most approximate schemes, however, provide none or only complex control on the precision of the searches, especially when

terms

Keywords: approximate nearest-neighbor searches, multimedia databases, similarity searches

Sensor databases: The design of an acquisitional query processor for sensor networks Samuel Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong June 2003 Proceedings of the 2003 ACM SIGMOD international conference on

Management of data Additional Information: full citation, abstract, references, citings, index Full text available: pdf(485.52 KB)

We discuss the design of an acquisitional query processor for data collection in sensor networks. Acquisitional issues are those that pertain to where, when, and how often data is physically acquired (sampled) and delivered to query processing operators. By focusing on the locations and costs of acquiring data, we are able to significantly reduce power consumption over traditional passive systems that assume the a priori existence of data. We discuss simple extensions to SQL for co ...

terms

On semantic caching and query scheduling for mobile nearest-neighbor search Baihua Zheng, Wang-Chien Lee, Dik Lun Lee November 2004 Wireless Networks, Volume 10 Issue 6

Full text available: pdf(293.57 KB) Additional Information: full citation, abstract, references, index terms

Location-based services have received increasing attention in recent years. In this paper, we address the performance issues of mobile nearest-neighbor search, in which the mobile user issues a query to retrieve stationary service objects nearest to him/her. An index based on Voronoi Diagram is used in the server to support such a search, while a semantic cache is proposed to enhance the access efficiency of the service. Cache replacement policies tailored for the proposed semantic cache are ...

Keywords: Voronoi diagram, indexing technique, location-based services, nearestneighbor search, query scheduling, roaming, semantic caching

10 Paper session 2: peer-to-peer search systems: One torus to rule them all: multidimensional queries in P2P systems

Prasanna Ganesan, Beverly Yang, Hector Garcia-Molina

June 2004 Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004

Full text available: Topological Pdf(208.01 KB) Additional Information: full citation, abstract, references

Peer-to-peer systems enable access to data spread over an extremely large number of machines. Most P2P systems support only simple lookup queries. However, many new applications, such as P2P photo sharing and massively multi-player games, would benefit greatly from support for multidimensional range queries. We show how such queries may





be supported in a P2P system by adapting traditional spatial-database technologies with novel P2P routing networks and load-balancing algorithms. We show how to ...

¹¹ An efficient algorithm for link-distance problems

June 1989 Proceedings of the fifth annual symposium on Computational geometry

Full text available: pdf(1.08 MB)

Additional Information: full citation, abstract, references, citings, index

The link distance between two points inside a simple polygon P is defined to be the minimum number of edges required to form a polygonal path inside P that connects the points. A link furthest neighbor of a point p & Egr; P is a point of P whose link distance is the maximum from p. The link center of P is the collection of p ...

12 Energy efficiency: Localized algorithms for energy efficient topology in wireless ad hoc networks



Wen-Zhan Song, Yu Wang, Xiang-Yang Li

May 2004 Proceedings of the 5th ACM international symposium on Mobile ad hoc networking and computing

Full text available: pdf(207.01 KB)

Additional Information: full citation, abstract, references, citings, index terms

We propose several novel localized algorithms to construct energy efficient routing structures for homogeneous wireless ad hoc networks, where all nodes have same maximum transmission ranges. Our first structure has the following attractive properties: (1) It is energy efficient: given any two nodes u and v, there is a path connecting them in the structure with total energy cost at most $\rho = 1/1$ -(2sin π/k)^{β} times of the energy cost of any path connecting th ...

Keywords: bounded degree, planar, spanner, topology control, wireless ad hoc networks

13 Processing in-route nearest neighbor queries: a comparison of alternative approaches Shashi Shekhar, Jin Soung Yoo



November 2003 Proceedings of the 11th ACM international symposium on Advances in geographic information systems

Full text available: pdf(440.85 KB) Additional Information: full citation, abstract, references, index terms

Nearest neighbor query is one of the most important operations in spatial databases and their application domains, e.g., location-based services, advanced traveler information systems, etc. This paper addresses the problem of finding the in-route nearest neighbor (IRNN) for a query object tuple which consists of a given route with a destination and a current location on it. The IRNN is a facility instance via which the detour from the original route on the way to the destination is smallest. Thi ...

Keywords: advanced traveler information systems, location-based services, nearest neighborhood query, road network, route

¹⁴ Special section: Reasoning about structure, behavior and function

B. Chandrasekaran, Rob Milne

July 1985 ACM SIGART Bulletin, Issue 93

Full text available: pdf(5.13 MB)

Additional Information: full citation, abstract, references

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader

framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

15 <u>Historical queries along multiple lines of time evolution</u>

Gad M. Landau, Jeanette P. Schmidt, Vassilis J. Tsotras

October 1995 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 4 Issue 4

Full text available: pdf(1.41 MB)

Additional Information: full citation, abstract, references, citings

Traditional approaches to addressing historical queries assume a single line of time evolution; that is, a system (database, relation) evolves over time through a sequence of transactions. Each transaction always applies to the unique, current state of the system, resulting in a new current state. There are, however, complex applications where the system's state evolves into multiple lines of evolution. In general, this creates a tree (hierarchy) of evolution lines, where each tree ...

Keywords: CAD databases, access methods, data-structures, rollback databases.

16 Technical papers: mobile and distributed computing: Network abstractions for contextaware mobile computing



Gruia-Catalin Roman, Christine Julien, Qingfend Huang

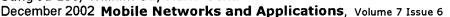
May 2002 Proceedings of the 24th International Conference on Software Engineering

Full text available: pdf(1.33 MB)

Additional Information: full citation, abstract, references, citings, index terms

Context-aware computing is characterized by the ability of a software system to continuously adapt its behavior to a changing environment over which it has little or no control. Previous work along these lines presumed a rather narrow definition of context, one that was centered on resources immediately available to the component in question, e.g., communication bandwidth, physical location, etc. This paper explores context-aware computing in the setting of ad hoc networks consisting of numerous ...

17 On-demand multicast routing protocol in multihop wireless mobile networks Sung Ju Lee, William Su, Mario Gerla



Full text available: pdf(248.93 KB)

Additional Information: full citation, abstract, references, citings, index terms

An ad hoc network is a dynamically reconfigurable wireless network with no fixed infrastructure or central administration. Each host is mobile and must act as a router. Routing and multicasting protocols in ad hoc networks are faced with the challenge of delivering data to destinations through multihop routes in the presence of node movements and topology changes. This paper presents the On-Demand Multicast Routing Protocol (ODMRP) for wireless mobile and hoc networks. ODMRP is a mesh-based, rat ...

Keywords: ad hoc networks, mobile computing, multicast, routing

18 A unified approach to loop-free routing using distance vectors or link states J. J. Garcia-Luna-Aceves



August 1989 ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols, Volume 19 Issue 4

Full text available: pdf(1.59 MB)

Additional Information: full citation, abstract, references, citings, index

We present a unified approach for the dynamic computation of shortest paths in a computer

network using either distance vectors or link states. We describe a distributed algorithm that provides loop-free paths at every instant and extends or improves algorithms introduced previously by Chandy and Misra, Jaffe and Moss, Merlin and Segall, and the author. Our approach treats the problem of distributed shortest-path routing as one of diffusing computations, which was first proposed by Dijkstra ...

19 Peer-to-peer computing: Foreseer: a novel, locality-aware peer-to-peer system architecture for keyword searches



Hailong Cai, Jun Wang

October 2004 Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware

Full text available: pdf(315.85 KB) Additional Information: full citation, abstract, references

Peer-to-peer (P2P) systems are becoming increasingly popular and complex, serving millions of users today. However, the design of current unstructured P2P systems does not take full advantage of rich locality properties present in P2P system workloads, thus possibly resulting in inefficient searches or poor system scalability. In this paper, we propose a novel locality-aware P2P system architecture called Foreseer, which explicitly exploits <I>geographical</I> locality and <I>t ...

Keywords: Bloom filter, Foreseer, geographical locality, temporal locality

²⁰ An optimal algorithm for approximate nearest neighbor searching fixed dimensions Sunil Arya, David M. Mount, Nathan S. Netanyahu, Ruth Silverman, Angela Y. Wu November 1998 Journal of the ACM (JACM), Volume 45 Issue 6



Full text available: pdf(287.94 KB)

Additional Information: full citation, abstract, references, citings, index terms

Consider a set of S of n data points in real d-dimensional space, Rd, where distances are measured using any Minkowski metric. In nearest neighbor searching, we preprocess S into a data structure, so that given any query point $q \in Rd$, is the closest point of S to q can be reported quickly. Given any po ...

Keywords: approximation algorithms, box-decomposition trees, closet-point queries, nearest neighbor searching, post-office problem, priority search

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1 Peer-to-peer computing: Foreseer: a novel, locality-aware peer-to-peer system architecture for keyword searches

window

Hailong Cai, Jun Wang

October 2004 Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware

Full text available: pdf(315.85 KB) Additional Information: full citation, abstract, references

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Keywords: Bloom filter, Foreseer, geographical locality, temporal locality

2 Paper session 2: peer-to-peer search systems: One torus to rule them all: multidimensional queries in P2P systems

Prasanna Ganesan, Beverly Yang, Hector Garcia-Molina

June 2004 Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004

Full text available: pdf(208.01 KB) Additional Information: full citation, abstract, references

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3 Special issue on wireless pan & sensor networks: CAPTURE: location-free contactassisted power-efficient query resolution for sensor networks Ahmed Helmy



January 2004 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 8 Issue 1

Full text available: pdf(844.09 KB) Additional Information: full citation, abstract, references

Oueries and small transfers are likely to constitute a significant portion of the flows in emerging classes of sensor networks. Route discovery for such queries incurs much more communication overhead than the actual data transfer. Especially for large-scale sensor networks, it is quite costly to establish shortest path routes for such types of requests. Flooding-based approaches for routing are designed to search for high quality routes. Such approaches may be suitable for prolonged transfers, ...

Session 2: Distributed object location in a dynamic network Kirsten Hildrum, John D. Kubiatowicz, Satish Rao, Ben Y. Zhao



August 2002 Proceedings of the fourteenth annual ACM symposium on Parallel algorithms and architectures

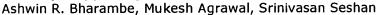
Full text available: pdf(234.76 KB)

Additional Information: full citation, abstract, references, citings, index terms

Modern networking applications replicate data and services widely, leading to a need for location-independent routing -- the ability to route queries directly to objects using names independent of the objects' physical locations. Two important properties of a routing infrastructure are routing locality and rapid adaptation to arriving and departing nodes. We show how these two properties can be efficiently achieved for certain network topologies. To do this, we present a new ...

Keywords: DHT, DOLR, distributed hash table, distributed object location, locality, nearest neighbor, networking, overlay, peer-to-peer, tapestry

Mercury: supporting scalable multi-attribute range queries





Full text available: pdf(1.29 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents the design of Mercury, a scalable protocol for supporting multi-attribute range-based searches. Mercury differs from previous range-based query systems in that it supports multiple attributes as well as performs explicit load balancing. To guarantee efficient routing and load balancing, Mercury uses novel light-weight sampling mechanisms for uniformly sampling random nodes in a highly dynamic overlay network. Our evaluation shows that Mercury is able to achieve ...

Keywords: distributed hash tables, load balancing, peer-to-peer systems, random sampling, range queries

6 Distributed, scalable routing based on link-state vectors



Jochen Behrens, J. J. Garcia-Luna-Aceves

October 1994 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Communications architectures, protocols and applications, Volume 24 Issue 4

Full text available: pdf(1.42 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A new family of routing algorithms for the distributed maintenance of routing information in large networks and internets is introduced. This family is called link vector algorithms (LVA), and is based on the selective diffusion of link-state information based on the distributed computation of preferred paths, rather than on the flooding of complete linkstate information based on the distributed computation of preferred paths, rather than on the flooding of complete link-state information ...

7 <u>Links for a better web: Refinement of TF-IDF schemes for web pages using their hyperlinked neighboring pages</u>



Kazunari Sugiyama, Kenji Hatano, Masatoshi Yoshikawa, Shunsuke Uemura
August 2003 Proceedings of the fourteenth ACM conference on Hypertext and
hypermedia

Full text available: pdf(211.25 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

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Keywords: TF-IDF scheme, WWW, hyperlink, information retrieval

8 A unified approach to loop-free routing using distance vectors or link states
J. J. Garcia-Luna-Aceves



August 1989 ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures & protocols, Volume 19 Issue 4

Full text available: pdf(1.59 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We present a unified approach for the dynamic computation of shortest paths in a computer network using either distance vectors or link states. We describe a distributed algorithm that provides loop-free paths at every instant and extends or improves algorithms introduced previously by Chandy and Misra, Jaffe and Moss, Merlin and Segall, and the author. Our approach treats the problem of distributed shortest-path routing as one of diffusing computations, which was first proposed by Dijkstra ...

9 Peer to peer networks: Query-flood DoS attacks in gnutella



November 2002 Proceedings of the 9th ACM conference on Computer and communications security

Full text available: pdf(465.15 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

We describe a simple but effective traffic model that can be used to understand the effects of denial-of-service (DoS) attacks based on query floods in Gnutella networks. We run simulations based on the model to analyze how different choices of network topology and application level load balancing policies can minimize the effect of these types of DoS attacks. In addition, we also study how damage caused by query floods is distributed throughout the network, and how application-level policies ca ...

Keywords: denial-of-service, peer-to-peer, security

10 XML and semistructured data querying: Querying structured data in an unstructured P2P system

Verena Kantere, Dimitrios Tsoumakos, Nick Roussopoulos

November 2004 Proceedings of the 6th annual ACM international workshop on Web information and data management

Full text available: pdf(120.65 KB) Additional Information: full citation, abstract, references, index terms

Peer-to-Peer networking has become a major research topic over the last few years. Sharing of structured data in such decentralized environments is a challenging problem, especially in the absence of a global schema. The standard practice of answering a query that is consecutively rewritten along the propagation path often results in significant loss of information. In this paper, we present an adaptive and bandwidth-efficient solution to the problem in the context of an unstructured, purely ...

Keywords: peer-to-peer, query reformulation, structured data

11 A path-finding algorithm for loop-free routing

J. J. Garcia-Luna-Aceves, Shree Murthy

February 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 1

Full text available: pdf(414.16 KB) Additional Information: full citation, references, citings, index terms

Keywords: internetworking, loop freedom, routing, shortest path

12 Loop-free routing using diffusing computations

J. J. Garcia-Lunes-Aceves

February 1993 IEEE/ACM Transactions on Networking (TON), Volume 1 Issue 1

Full text available: pdf(1.38 MB) Additional Information: full citation, references, citings, index terms

13 An efficient algorithm for link-distance problems

Y. Ke

June 1989 Proceedings of the fifth annual symposium on Computational geometry

Full text available: pdf(1.08 MB)

Additional Information: full citation, abstract, references, citings, index terms

The link distance between two points inside a simple polygon P is defined to be the minimum number of edges required to form a polygonal path inside P that connects the points. A link furthest neighbor of a point p &Egr; P is a point of P whose link distance is the maximum from p. The link center of P is the collection of p ...

14 AGM: a dataflow database machine

Lubomir Bic, Robert L. Hartmann

March 1989 ACM Transactions on Database Systems (TODS), Volume 14 Issue 1

Full text available: pdf(2.69 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

In recent years, a number of database machines consisting of large numbers of parallel processing elements have been proposed. Unfortunately, there are two main limitations in database processing that prevent a high degree of parallelism; these are the available I/O bandwidth of the underlying storage devices and the concurrency control mechanisms necessary to guarantee data integrity. The main problem with conventional approaches is the lack of a computational model capable of utilizing th ...

15 Searching in metric spaces by spatial approximation

Gonzalo Navarro

August 2002 The VLDB Journal — The International Journal on Very Large Data Bases,
Volume 11 Issue 1

Full text available: pdf(281.75 KB) Additional Information: full citation, abstract, citings, index terms

We propose a new data structure to search in metric spaces. A metric space is formed by a collection of objects and a distance function defined among them which satisfies the triangle inequality. The goal is, given a set of objects and a query, retrieve those objects close enough to the query. The complexity measure is the number of distances computed to achieve this goal. Our data structure, called sa-tree ("spatial approximation tree"), is based on approaching ...

Keywords: Multimedia databases, Similarity or proximity search, Spatial and multidimensional search, Spatial approximation tree

16 Distributed information retrieval: SETS: search enhanced by topic segmentation Mayank Bawa, Gurmeet Singh Manku, Prabhakar Raghavan



Full text available: pdf(307.88 KB)

Additional Information: full citation, abstract, references, citings, index terms

We present SETS, an architecture for efficient search in peer-to-peer networks, building upon ideas drawn from machine learning and social network theory. The key idea is to arrange participating sites in a topic-segmented overlay topology in which most connections are short-distance, connecting pairs of sites with similar content. Topically focused sets of sites are then joined together into a single network by long-distance links. Queries are matched and ro ...

Keywords: distributed information retrieval, peer-to-peer (P2P), small world networks, topic segments, topic-driven query routing

17 Posters: Distributed ranking over peer-to-peer networks

Dexter Chi Wai Siu, Tak Pang Lau

May 2004 Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters

Full text available: pdf(181.71 KB) Additional Information: full citation, abstract, references, index terms

Query flooding is a problem existing in Peer-to-Peer networks like Gnutella. Firework Query Model solves this problem by Peer Clustering and routes the guery message more intelligently. However, it still contains drawbacks like query flooding inside clusters. The condition can be improved if the query message can send directly to the query destination, as the message does not need to send hop by hop. This can be achieved by ranking. By ranking, the network can know the destination and the inform ...

Keywords: distributed peer ranking, peer-to-peer networks

18 Community search assistant

Natalie S. Glance

January 2001 Proceedings of the 6th international conference on Intelligent user interfaces

Full text available: pdf(181.91 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a new software agent, the community search assistant, which recommends related searches to users of search engines. The community search assistant enables communities of users to search in a collaborative fashion. All queries submitted by the community are stored in the form of a graph. Links are made between queries that are found to be related. Users can peruse the network of related queries in an ordered way: following a path from a first cousin, to a second cousin t ...





Keywords: intelligent agent, recommender system, search

19 Local versus global link information in the Web



Pável Calado, Berthier Ribeiro-Neto, Nivio Ziviani, Edleno Moura, Ilmério Silva January 2003 ACM Transactions on Information Systems (TOIS), Volume 21 Issue 1

Full text available: pdf(413.06 KB)

Additional Information: full citation, abstract, references, citings, index terms

Information derived from the cross-references among the documents in a hyperlinked environment, usually referred to as link information, is considered important since it can be used to effectively improve document retrieval. Depending on the retrieval strategy, link information can be local or global. Local link information is derived from the set of documents returned as answers to the current user query. Global link information is derived from all the documents in the collection. In th ...

Keywords: Belief networks, World Wide Web, link analysis, local and global information

²⁰ A survey of Web metrics



Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick December 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 4

Full text available: pdf(289.28 KB)

Additional Information: full citation, abstract, references, citings, index terms

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

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S11 3	164041	S111 adj3 S110	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:23
S11 4	5528	S112 with S113	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:35
S11 5	866	704/9.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:23
S11 6	323	704/10.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:23
S11 7	3980	707/104.1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:23
S11 8	1095	S115 xor S116 S115 and S116	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:23

S11 9	5056	S117 xor S118 S117 and S118	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:23
S12 0	7	S114 and S119	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:23
S12 1	6	S120 and @ad<="20010117"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2005/04/16 15:33
S12 2	367687	quer\$5 question\$5 answer\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:29
S12 3	1473505	link\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:30
S12 4	486	S114 and S122	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:30
S12 5	1077	S114 and S123	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:30
S12 6	140647	S122 and S123	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:30
S12 7	210	S114 and S126	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2005/04/16 15:31

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S12 8	21	(US-5056021-A US-5471382-A US-5477450-A US-5487132-A US-5490061-A US-5535121-A US-5577166-A US-5644686-A US-5784539-A US-5819271-A US-5893088-A US-5933822-A EP-962873-A1 US-6006221-A JP-2000056977-A US-6167370-A US-20020013705-A1 US-6487545-B1 US-20030061202-A1 US-6556983-B1 US-6564263-B1). did.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/04/16 15:32
S12 9	0	S127 and S128	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:32
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S13 4	661	("4130881" "4489387"	"4342085" "4594686"	I	US-PGPUB; USPAT;	OR	ON	2005/04/16 15
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S13 5	0	S127 and S134	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:33
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S13 7	258873	S112 with S110	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:37
S13 8	3	S137 and S128	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:42
S13 9	8	S137 and S130	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:42
S14 0	8	S139 and @ad<="20010117"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:53
S14 1	105	S137 and S132 and @ad<="20010117"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:54
S14 2	21	S141 and S119	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:56
S14 3	44	S141 and S126	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 15:57

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S10 922 ("20010028569" "2001005550" US-PCPUB; OR USPAT; "3594759" "3500513" USPAT;						·		
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S10 1	1121683	subject\$1 noun\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 12:46
S10 2	5531006	root\$1 start\$4 head\$4 begin\$4 origin\$6 prim\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 12:46
S10 3	7691018	graph\$6 pict\$8 diagram\$5 draw\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 12:46
S10 4	677436	S102 same S103	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/04/16 12:46
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S10 6	96	S105 and S100	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 12:46
S10 7	59	S106 and S104	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 12:46
S10 8	58	S107 and @ad<="20010117"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 13:08
S10 9	45	S108 and sentence\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/16 12:48